NICHOLAS FREEMAN MEHRLE

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EDUCATION

Johns Hopkins UniversityBaltimore, MDM.A. Physics and AstronomyMay 2016

M.A. Physics and Astronomy – **GPA:** 4.0/4.0

B.S. Physics May 2016

- Additional Majors: Mathematics & Applied Mathematics and Statistics

- **GPA:** 3.91/4.0

RESEARCH

Cosmology Large Angular Scale Surveyor Batimore, MD

Research Assistant - Department of Physics and Astronomy May 2013 - May 2016

Design of variable-delay polarization modulator

CERN Geneva, Switzerland

Research Assistant - CMS Experiment

Jan - May 2015

- Statistical analysis to discriminate production methods of Higgs boson

EMPLOYMENT

Johns Hopkins University Baltimore, MD

Teaching Assistant - Department of Mathematics

Sept - Dec 2015

Differential Equations

Optiver US LLC Chicago, Il

Trading Intern

June - Aug 2015

Simulated high frequency trading of financial options

Johns Hopkins University Applied Physics Lab Laurel, MD

Technical Intern - Applied Concepts and Technology Group May - Aug 2014

Algorithm development, modeling and simulation

Johns Hopkins University

Baltimore, MD

Tutor - Learning Den Sept 2013 - May 2014

Newtonian mechanics and electricity and magnetism

Publications

 CLASS: The Cosmology Large Angular Scale Surveyor. With Thomas Essinger-Hileman et al. arXiv reference: 1408.4788.

- The Cosmology Large Angular Scale Surveyor (CLASS): 38 GHz detector array of bolometric polarimeters. With John W. Appel et al. arXiv reference: 1408.4789.

Miscellaneous

Programming: Python, Java, JavaScript, C, C++, Matlab, Mathematica, R, HTML

CSS, LATEX, VBA

Organizations: Phi Beta Kappa, Sigma Pi Sigma, Wading Team

Testing: Physics GRE - 960/990 (91st percentile)